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Notice of Allowability	Application No.	Applicant(s)
	10/691,503	KUWATA, YASUAKI
	Examiner	Art Unit
	Phillip Nguyen	2828
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. 1. This communication is responsive to 4/11/2007.		
2. ☑ The allowed claim(s) is/are 1-₺,14,16 and 17.		
 3. Acknowledgment is made of a claim for foreign priority unall algorithms. a) All b) Some* c) None of the: 1. Certified copies of the priority documents have algorithms. 2. Certified copies of the priority documents have algorithms. 3. Copies of the certified copies of the priority documents. 	been received. been received in Application No	
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	E Matica of Informal D	latant Ameliantian
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	5. ☐ Notice of Informal P6. ☐ Interview Summary	· ·
	Paper No./Mail Date	te
3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date	7. 🛛 Examiner's Amendr	nent/Comment
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. Examiner's Statement	ent of Reasons for Allowance
2. 2.6.69.66	9.	:
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EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Linda M. Saltiel on 4/26/2007.

The application has been amended as follows:

In the claims, claim 6 is cancelled.

Allowable Subject Matter

2. The following is an examiner's statement of reasons for allowance: Claims 1-4 and 14-17 are allowed with the reasons as following:

There is not taugh the claimed invention as recited in the independent claims, particularly the block member is made of a material identical to that of the electrode.

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Response to Arguments

3. A part of applicant's arguments filed on 4/11/2007 have been fully considered but they are not persuasive.

Regarding Koyama et al. (US 20020141472), applicant inserts that the layer 32 is not described in Koyama as a confinement layer as presently claim. And the layer 32 is a subnet of element 20 which is defined as a p-type layer. However, this argument is in error because Koyama clearly teaches that "an insulating region (current confinement region) reflecting the shape of the post is formed on the portion directly above the active region and a portion of the post, whereas a non-oxidized region 34, which is left non-oxidized, becomes a current injection region". It is well known in the art that current confinement structure includes highly resistive region surrounding a current conductive region. The highly resistive region is typically formed by oxidizing process while the current conductive region is left unchanged or non-oxidized. However, Koyama does not teach the block member being made of a material identical to the electrode. Therefore the rejections are widthdrawn.

Regarding to Shimizu (US 64802516), the applicant's argument is persuasive.

Therefore the rejections are widthdrawn.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably

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accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Communication Information

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Phillip Nguyen whose telephone number is 571-272-1947. The examiner can normally be reached on 9:00 AM - 6:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, MINSUN HARVEY, can be reached on 571-272-1835. The fax phone number for the organization where this application or proceeding is assigned is **571-273-8300**.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Phillip Nguyen/

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MINSUN OH HARVEY
PRIMARY EXAMINER
WARVEY
VAMINER